

# **TUNABLE FABRY-PEROT CAVITY FILTER AND METHOD FOR MAKING AND USING THE FILTER**

## **ABSTRACT OF THE DISCLOSURE**

A tunable Fabry-Perot filter, which includes a pair of opposed partially reflective surfaces, a cavity between the partially reflective surfaces, a nano-dispersion of liquid crystals disposed in the cavity, and a control unit for applying an electric field to the liquid crystals.